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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,296	07/30/2001	Dong Su Lee	83371	9882

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EXAMINER

SHEEHAN, JOHN P

ART UNIT	PAPER NUMBER
1742	8

DATE MAILED: 02/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/918,296	LEE ET AL.
	Examiner	Art Unit
	John P. Sheehan	1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 November 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6 is/are pending in the application.

4a) Of the above claim(s) 6 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-5 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____

4) Interview Summary (PTO-413) Paper No(s) _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I claims 1 to 5 in Paper No. 8 is acknowledged. The traversal is on the ground(s) that the product and process "are so interlinked as to require that searching be conducted in identical classes and accordingly, Applicant believes that the search and examination of the entire application be made without serious burden." This is not found persuasive because applicant has not controverted the Examiner's reason for restriction that the product as claimed can be made by another and materially different process such as for example by electrolytic deposition or by controlled cooling of a melt of the alloy and that the product of claim 6 is not on a substrate and therefore is not the product of the Group I process. Further, contrary to applicant's traversal the search for the product claim 6 and the process claims 1 to 5 are different and to examine both sets of claims in a single application would require additional searching, analysis of the prior art, formulation of rejections, evaluation of applicants' arguments and consideration of issues of patentability, thereby adding to the burden on the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

I. The subject matter recited in as filed claims 4 and 5 does not find support in the specification.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1 to 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

I. The meaning of the phrase, "giant single crystal grains" (claim 1, line 2) is not clear in that the terms, "single" and "grains" are not consistent. The use of the term "single" appears to limit the metallic film to one single crystal as disclosed, for example, in the specification at paragraphs 26 to 28. However, the use of the plural term, "grains" encompasses multiple crystal grains so that the metallic film consists of more than one crystal grain. In view of this inconsistency it is not clear whether the metallic film is a single crystal or polycrystalline.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in–
(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

6. Claims 1 to 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Summerfelt (US Patent No. 6,117,689).

Summerfelt teaches a method comprising depositing a metallic film on a substrate (column 8, lines 53 to 57 and column 9, lines 32 to 38) and subsequently annealing the substrate and film to cause grain growth (column 10, lines 14 to 28). Summerfelt discloses that the gas atmosphere used during the film deposition includes a mixture of argon and oxygen (column 8, lines 55 to 57 and column 9, line 32) which is encompassed by the instant claim language, "an atmosphere of an inert gas and a specified additive gas" (claim 1, lines 3 and 4) and the gases recited in claim 4. Summerfelt also teaches Pt as a specific example of the metallic film (column 9, line 32) but also teaches the use of Ru, Pd, Ir, Au and Ag (column 11, lines 20 to 25) all of which are encompassed by the term "metallic" (claim 1, line 1) and the metallic films recited in claim 5. As an example of a method of depositing the metallic film Summerfelt teaches DC sputtering (column 9, line 32) which is encompassed by term "depositing" (claim 1,

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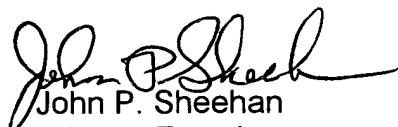
line 3) and the DC sputtering recited in claim 3. The claimed process does not distinguish Summerfelt.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Sheehan whose telephone number is (703) 308-3861. The examiner can normally be reached on T-F (6:30-5:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (703) 308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.



John P. Sheehan
Primary Examiner
Art Unit 1742

jps
January 28, 2003